

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/002127

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 C08F 4/643, C08F 4/614, B01J 31/38, B01J 31/00**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C08F 4/643, C08F 4/614, B01J 31/38, B01J 31/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for inventions since 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CA-on CD, PAJ, KIPASS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,399,531 B1(UNION CARBIDE CHEM PLASTIC ) 04June 2002 see the whole documents	1-4
A	US 6,323,293 B1(Fina Technology, Inc.) 27 November 2001 see the whole documents	1-4
A	US 4,634,746 A (Bradly P.Etherton, Houston; Malcolm J.Kaus, Humble, both of Tex.) 06 January 1987 see the whole documents	1-4
A	JP 11-246620 A (TOHO TITANIUM CO LTD ) 14 September 1999 see the whole documents	1-4
A	EP0747401 A1 (FINA TECHNOLOGY ) 11 December 1996 see the whole documents	1-4

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search  
09 DECEMBER 2004 (09.12.2004)

Date of mailing of the international search report

**10 DECEMBER 2004 (10.12.2004)**Name and mailing address of the ISA/KR  
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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/KR2004/002127

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US6399531B1	04.06.2002	AU2601501A1 US6399531B1 W00148038A1	09.07.2001 04.06.2002 05.07.2001
US 6323293B1	27.11.2001	EP860452A1 JP10251330A2	26.08.1998 22.09.1998
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